Appl No. 10/679,787 Amdt. dated Jan. 16, 2006 Reply to Office action of Oct. 14, 2005

## **Listing of Claims:**

- 1-31. (canceled)
- 32. (new) A solder joint structure for a semiconductor apparatus having a top surface, comprising:
- a two-layered copper structure at the top surface of the semiconductor apparatus, having a bottom layer and a top layer, the top layer about 0.6 µm thick;
- a nickel layer sandwiched between and contacting the two copper layers; and a solder ball formed on and contacting the about 0.6 µm thick copper layer.
- 33. (new) The solder joint structure claim 32, further comprising a layer of  $Cu_6Sn_5$  formed during a reflow process, in which the copper is derived from the 0.6  $\mu$ m thick copper layer and the tin is derived from the solder ball.